

In re: Kevin J. Ward
Serial No. 08/905,130
Filed: 1 August 1997
Page 2 of 6

wherein a pair of first and second stitching yarns is positioned between each adjacent pair of top cross machine direction yarns, said first and second stitching yarns of each pair being interwoven with said top and bottom machine direction yarns

15 such that, as a fiber support portion of said first stitching yarn is interweaving with said top machine direction yarns, a binding portion of said second stitching yarn is positioned below said top machine direction yarns, and such that as a fiber support portion of said second stitching yarn is interweaving with said top machine direction

20 machine direction yarns, a binding portion of said first stitching yarn is positioned below said top machine direction yarns, and such that said first and second stitching yarns cross each other as they pass below a transitional top machine direction yarn, and such that each of said binding portions of said first and second stitching yarns passes [**below at least**] beneath only one of said bottom machine direction yarns[;

wherein each of said binding portions of said first and second stitching

25 **yarns passes beneath only one of said bottom machine direction yarns].**

23.14 (Amended) A method of making paper, said method comprising the steps of:

(a) providing a papermaker's fabric comprising top machine direction yarns, top cross machine direction yarns, bottom machine direction yarns, bottom

5 cross machine direction yarns, and sets of first and second stitching yarns, said fabric being formed in a plurality of repeating units, each of said repeating units comprising:

B2

a set of top machine direction yarns;

a set of top cross machine direction yarns interwoven with said set of top machine direction yarns;

10 a set of bottom machine direction yarns;

a set of bottom cross machine direction yarns interwoven with said set of bottom machine direction yarns;

~~wherein a pair of first and second stitching yarns is positioned between each~~

adjacent pair of top cross machine direction yarns, said first and second stitching

15 yarns of each pair being interwoven with said top and bottom machine direction yarns such that, as a fiber support portion of said first stitching yarn is interweaving with

33

In re: Kevin J. Ward
Serial No. 08/905,130
Filed: 1 August 1997
Page 3 of 6

said top machine direction yarns, a binding portion of said second stitching yarn is positioned below said top machine direction yarns, and such that as a fiber support portion of said second stitching yarn is interweaving with said top machine direction
20 yarns, a binding portion of said first stitching yarn is positioned below said top machine direction yarns, and such that said first and second stitching yarns cross each other as they pass below a transitional top machine direction yarn, and such that each of said binding portions of said first and second stitching yarns passes below at least one of said bottom machine direction yarns;

25 wherein each of said top cross machine direction yarns passes over a first group of alternate top machine direction yarns and under a second group of alternate top machine direction yarns, with each of said yarns of said first group being positioned between a pair of yarns of said second group, and with each of said yarns of said second group being positioned between a pair of yarns of said first group, and
30 wherein said fiber support portions of said first and second stitching yarns pass under said first set of alternate top machine direction yarns and over said second set of alternate top machine direction yarns, such that said top machine direction yarns, said top cross machine direction yarns, and said fiber support portions of said first and second stitching yarns form a plain weave pattern;

35 wherein said fiber support portions of said first stitching yarns pass over a first number of said machine direction yarns, said fiber support portions of said second stitching yarns pass over a second number of said machine direction yarns, and said first number differs from said second number;

(b) applying paper stock to said papermaker's fabric; and

40 (c) removing moisture from said paper stock.

25. ¹⁵ (Amended) [The papermaker's fabric defined in Claim 23,] A

method of making paper, said method comprising the steps of:

(a) providing a papermaker's fabric comprising top machine direction yarns, top cross machine direction yarns, bottom machine direction yarns, bottom

34

In re: Kevin J. Ward
Serial No. 08/905,130
Filed: 1 August 1997
Page 4 of 6

5 cross machine direction yarns, and sets of first and second stitching yarns, said fabric being formed in a plurality of repeating units, each of said repeating units comprising:

a set of top machine direction yarns;

a set of top cross machine direction yarns interwoven with said set of top machine direction yarns;

10 a set of bottom machine direction yarns;

a set of bottom cross machine direction yarns interwoven with said set of bottom machine direction yarns;

wherein a pair of first and second stitching yarns is positioned between each adjacent pair of top cross machine direction yarns, said first and second stitching yarns of each pair being interwoven with said top and bottom machine direction yarns

15 such that, as a fiber support portion of said first stitching yarn is interweaving with said top machine direction yarns, a binding portion of said second stitching yarn is positioned below said top machine direction yarns, and such that as a fiber support portion of said second stitching yarn is interweaving with said top machine direction
20 yarns, a binding portion of said first stitching yarn is positioned below said top machine direction yarns, and such that said first and second stitching yarns cross each other as they pass below a transitional top machine direction yarn, and such that each of said binding portions of said first and second stitching yarns passes below at least one of said bottom machine direction yarns;

25 wherein said top machine direction yarns and said top cross machine direction yarns are interwoven in a repeating pattern such that each of said top cross machine direction yarns passes over a first pair of adjacent top machine direction yarns, under a third top machine direction yarn adjacent to said first pair, and over a second pair of top machine direction yarns positioned adjacent said third top machine direction yarn,
30 and wherein adjacent top cross machine direction yarns pass over top machine direction yarn pairs that are offset by two top machine direction yarns,

~~and wherein said stitching yarns are interwoven with said top machine~~
direction yarns in a repeating pattern such that said fiber support portion of each of said first and second stitching yarns passes over a third pair of adjacent top machine
35 direction yarns, under an adjacent top machine direction yarn, and over a fourth pair

35
35